DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER - WADE PARK

10701 EAST BLVD. CLEVELAND, OH. 44106

EMERGENCY SEWER REPAIR K-WING

PROJECT NO. 541-16-522

# Veterans Administration Medical Center



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PARTIAL BASEMENT PLUMBING PLANS

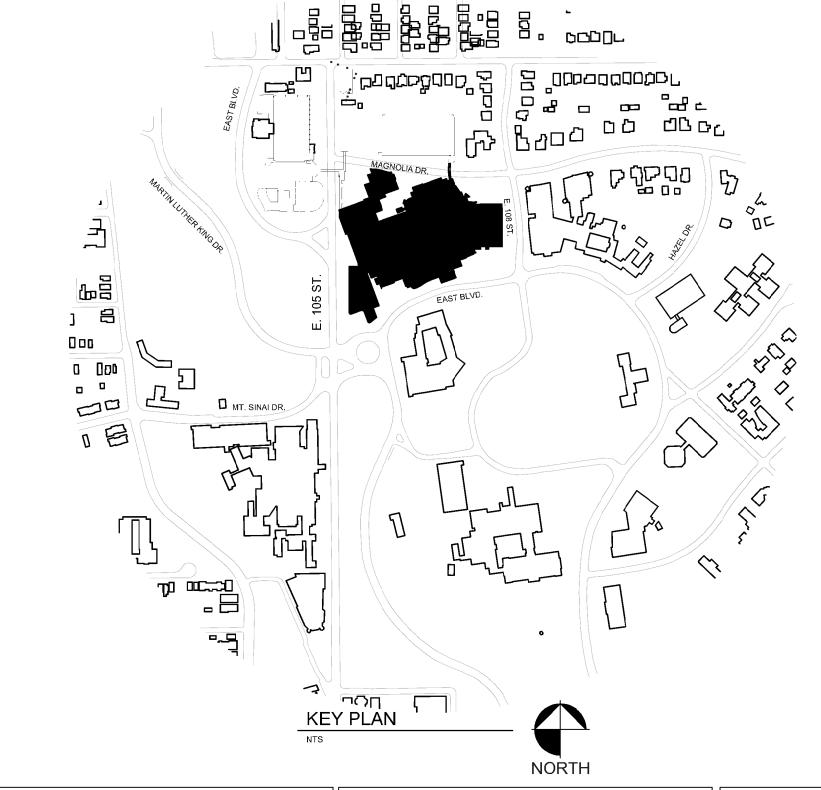
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Mechanical & Electrical Engineers 672 East Royalton Road, Broadview Heights, Ohio 44147

BID ISSUE JULY 01, 2016



07-01-2016

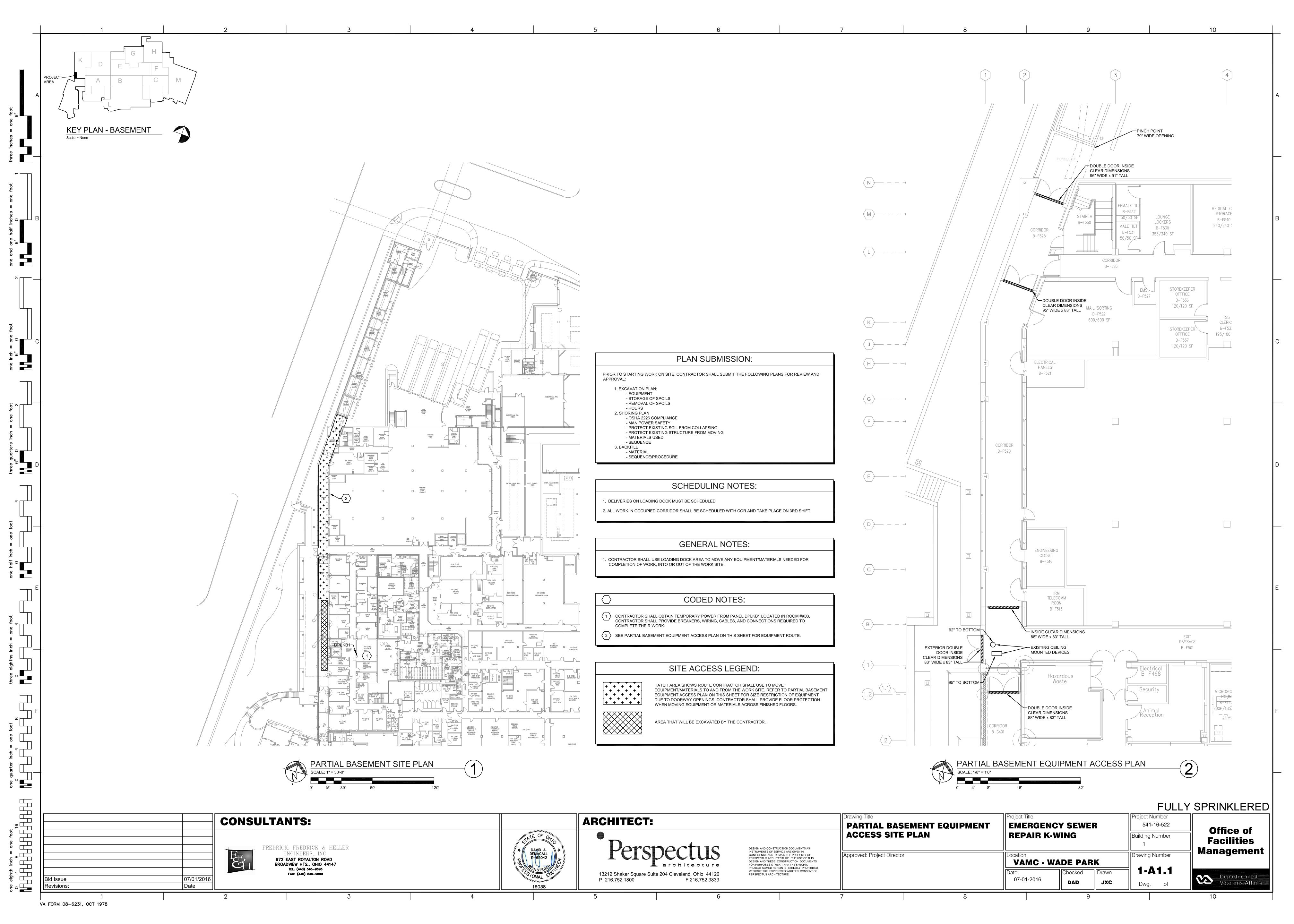
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APPROVALS	DATE	APPROVALS	DATE	APPROVALS	DATE	Drawing Title COVER SHEET
DIRECTOR 00		CHIEF Planning and Construction		FACILITY MANAGER		
ASSOCIATE DIRECTOR 00A (B)		CHIEF, Occupational Health & Safety		SHOP FOREMAN 138		Approved: Division Chief
CHIEF, ENGINEERING 138		CHIEF, IRM				Approved: Service Director

Project Number Office of 541-16-522 **EMERGENCY SEWER Facilities REPAIR K-WING Building Number** Management Drawing Number **VAMC - WADE PARK** 1-X0.0

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



FLOOR PLAN GENERAL NOTES

# I. General Notes

- 1. Do not scale drawings. Contractor(s) are to verify site dimensions and conditions prior to work.
- 2. Construction shall be in accordance with the requirements of the applicable codes including accessibility standards and the requirements of "Americans with Disabilities Act."
- 3. Contractor(s) shall visit the site and correlate the requirements of the documents with the existing conditions.
- 4. Drawings are diagrammatic and since existing conditions, including areas above accessible ceilings may affect new work, the contractor shall coordinate and alter new work to properly fit the existing conditions. The work shall be performed at no extra cost. The contractor shall verify all conditions and dimensions at the job site prior to the start of construction. If discrepancies are found, the Architect shall be notified for clarification before commencing with the work.
- 5. Details not shown are similar in character to those shown. When specific dimensions, details, or design intent cannot be determined, consult the Architect before proceeding with the work.
- 6. Some masonry and lumber dimensions shown on the drawings are nominal dimensions. Contractor(s) shall coordinate actual dimensions with the job conditions. Report all discrepancies to the Architect.
- 7. Existing conditions shown on this drawing are not guaranteed to be complete. The contractor(s) shall field verify all existing conditions, dimensions, and materials required for the contracted work. Report all discrepancies to the COR.
- 8. The term 'patch to match' or 'cutting and patching' denotes that repair work is necessary to construct a floor, base, wainscot, wall or ceiling to match its adjacent surface, texture, material, finish and color of adjacent existing surfaces.
- 9. If materials suspected of containing hazardous materials are encountered, DO NOT DISTURB; immediately notify the architect and owner.
- 10. Where existing partitions or services have been removed, or new services penetrate existing surfaces, the openings shall be patched to match the existing surface finish, texture, and sheen.

II. Fire Resistance Rating

1. Preserve all fire resistant ratings of existing wall unless otherwise noted.

#### GENERAL DEMOLITION NOTES

- A. Refer to Specifications Section 024100 "Demolition" for additional requirements and information. B. Project scope is indicated for general intent only. Additional demolition will be required inside and outside this line. Architectural demolition drawings are for schematic purposes.
- C. The Owner shall remove, prior to construction, all items that the Owner desires to salvage. All remaining items indicated to be demolished shall be removed by the Contractor and legally disposed of in accordance with the project specifications.
- D. Contractor shall coordinate all demolition with the entire set of contract documents for full scope of demolition work required for the project.
- E. Existing conditions shown on the drawings are not guaranteed to be complete. The Contractor shall verify all existing conditions, dimensions, and materials required for the contracted work. Report all discrepancies to COR prior to fabrication, erection, and/or installation.
- F. Contractor shall provide dust removing walk off mat (tacky mat) at construction entry points. Contractor shall enter construction areas at contractor access door in temporary partitions. Where individual rooms without a temporary partition are in a construction area, contractor entry point shall be through existing door(s).
- G. Contractor shall provide HEPA filtered negative air machine(s) to maintain negative pressure to scope of work area ensuring no dust will be transferred to occupied areas. Provide visual pressure monitoring device at dust proof barricade to confirm pressure. Dust monitoring shall be by Owner. See Infection Control Risk Assessment in specification section 01 35 26 "Safety Requirements".
- H. All demolition work being done outside temporary partitions is to be appropriately sealed off to prevent the transmission of dust and debris. Work shall be done to minimize disruption to visitors, patients and staff. Coordinate location of barriers with the COR.
- I. The hospital's smoke and fire suppression system shall remain in operation within the project scope
- area during the entire construction phase. J. Field verify locations of all existing walls. Report any discrepancies to COR.
- K. Some items may be indicated in the demolition drawing and demolition notes which are not necessarily demolition work, but are included to describe the overall scope of the project and aid in the demolition coordination. The Contractor is responsible for all work required to complete the work
- L. Flooring demolition includes the removal of existing floor finishes, including VCT, sheet vinyl, ceramic tile, quarry tile, carpet and other finishes, grouts, mastics, and setting beds complete to existing concrete floor slab or other substrate ready for new floor finishes. Concealed multiple floor
- finishes may be present in several locations. Floor preparation shall be by the installing Contractor. M. Plug abandoned floor openings with new concrete. Plug shall match existing slab depth and shall be structurally sound to carry floor load of 100 LBS/SF U.N.O.
- N. All fire rated assemblies (columns, shafts, walls, etc.) shall be maintained or be relocated/patched. Match existing fire rating U.N.O.
- O. See mechanical drawings for plumbing, HVAC and fire protection demolition. See electrical drawings for all power and lighting demolition.
- P. Debris removal shall not interfere with Owner's operations and shall occur during off hours as
- deteremined by COR. Q. All noise generating operations, including cutting of ceilings, walls and floor, coring, drilling, etc. shall
- be scheduled between the hours of 8am and 5 pm.
- R. Contractor to protect all existing walls, ceilings and floor finishes scheduled to remain. Any surface(s) damaged by contractor shall be replaced by contractor at no additional cost to the Owner.
- S. All areas outside of temporary partitions requiring new work are to be performed so as to minimize disruption to patients and staff.

#### TEMORARY PARTITION NOTES

- A. Contractor shall at all times provide and/or maintain separation between Owner-occupied areas and areas under construction or partially constructed.
- B. Contractor shall construct and maintain at all times temporary partitions. Temporary partitions shall be located to separate all Owner occupied areas from construction areas. Temporary partitions shall not interfere with Owner's operation of facilities.
- C. Temporary construction partitions and contractor access doors are to be constructed in their entirety prior to the start of demolition.
- D. Coordinate exact locations of temporary partition with existing items in corridor ceilings and wall. Exit access corridors must remain adequately lit and ventilated throughout the construction process.
- E. Temporary partitions shall be constructed of  $3\frac{5}{8}$ " metal studs w/ $\frac{5}{8}$ " Type 'X' gypsum board on both sides. Metal studs and gypsum board shall be full height to underside of deck unless otherwise approved by COR. Seal all perimeters and penetrations.
- the work. Contractor shall determine location and quantity of all temporary partitions in accordance with ICRA and VA requirements prior to submittal of bid. G. Remove temporary partitions completely after completion of work and when approved by COR.

F. Additional or modifications to the temporary partitions shown may be required due to sequencing of

- Patch all surfaces damaged by the installation or removal or partitions. H. Modification to the fire protection Life Safety system, or other system or device, may need to occur, if temporary partitions cover or conceal existing devices, Contractor shall relocate the affected
- devices to maintain their effectiveness. I. Contractor shall remove temporary partitions at the conclusion of all Work, and when directed by

# STRUCTURAL NOTES

### CODES AND STANDARDS

- 1. Unless explicitly modified in the Contract Drawings and Specifications, the contractor shall comply with provisions of:
  - A. ACI 301-05, Specifications for Structural Concrete
  - B. ACI 318-05, Building Code Requirements for Structural Concrete C. ACI 530-05/ASCE 5-05/TMS 402-05, Building Code Requirements for Masonry

# DESIGN LOADS

# Floor Live Load

Concrete (st

strength design) minimum compressive strength in 28 days:	
Interior slabs on grade	f'c = 4,000 p
Reinforcing bars (ASTM A615, Grade 60)	F <sub>v</sub> = 60,000 p

- 1. All new construction shall comply with the Contract Documents and the Building Code. 2. Typical details and general notes apply to all parts of the work except where specifically detailed or unless otherwise noted.
- Drawings are not to be scaled.
- 4. Refer to architectural, mechanical and electrical plans for additional information.
- 5. The Contractor shall verify and be responsible for all dimensions and conditions which impact the work. Field verify sizes, elevations, and hole locations, etc., prior to fabrication.
- 6. The Contractor shall carefully review the drawings to identify the scope of work required, visit the site to relate the scope of work to existing conditions and determine the extent to which those conditions and physical surroundings will impact the work. 7. Existing conditions as shown on these plans are for reference only. The Contractor is required to field
- verify all existing conditions prior to construction. 8. The Contractor shall resolve any conflicts on the drawings or in the specifications with the
- Architect/Engineer before proceeding with the work.
- 9. Any deviation, modification, or substitution from the drawings shall be submitted to the Owner, Architect, and Engineer for review/approval prior to its use or inclusion on the shop drawings.
- 10. The Contractor shall provide all necessary shores, braces, and guys required to support all loads to which the building structure and components, soils, other structures, and utilities may be subjected during construction.
- 11. The Contractor shall provide means. method, techniques, sequences, and procedure of construction
- 12. The Contractor shall protect all work, materials, and equipment from damage and shall provide
- proper storage facilities for materials and equipment during construction. 13. Site visits performed by the Architect/Engineer do not include inspections of means and methods of construction performed by the Contractor.
- 14. Structural observations performed by the Architect/Engineer during construction are not the continuous and special inspection services and do not waive the responsibility for the inspections required of the COR or the testing agency, Observation also do not guarantee the Contractor's performance and shall not be considered as supervision of construction.
- 15. The Contractor shall review shop drawings for completeness and compliance with Contract Documents. The Contractor shall stamp shop drawings prior to submission to the Architect and
- Engineer 16. Review of the shop drawings by the Architect's Engineers shall not be construed as an authorization to deviate from the Contract Documents.
- 17. Shop drawings will not be processes if they are incomplete, lack coordination with relevant portion of contact documents, lack calculations if required, or if deviations, modification, and substitutions are indicated without prior written approval from the Architect/Engineer.

#### CONSTRUCTION PROCEDURE

- All walls and all floor and roof membranes shall be securely shored and braced at all times during construction.
- No pipes or ducts shall be embedded into structural members unless shown on the plans or approved by the Engineer.
- No structural elements are to be cut unless specifically approved by the Engineer.

#### ROOF, FLOOR, OR WALL OPENINGS

- The Contractor shall verify and coordinate the number, size, and location of all sleeves
- and opening required for mechanical or electrical items. Sleeves and openings shall be located in a manner that will maintain the structural integrity of the roof, floor, or wall system.
- No structural elements are to be cut unless specifically approved by the Engineer.

## STRUCTURAL TESTING AND SPECIAL INSPECTIONS

Special structural testing and inspections are required. The Contractor shall hire an approved independent testing agency. The agency shall be designated as the special inspector and shall provide structural testing and special inspections as required by the building code and as noted in the Contract Documents. Reports of inspection and testing shall be sent to the Architect, Engineer, Owner, and Contractor. Structural testing and special inspection shall include:

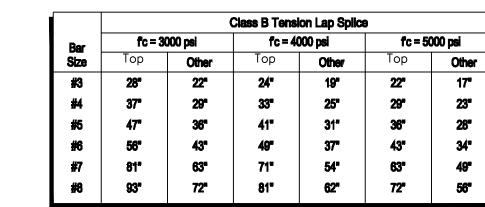
- Concrete: mix data, daily pour reports, cylinder tests, slump, entrained air tests, and
- temperature. See specifications for all testing and inspection requirements. Reinforcement: placement, type size, and grade of steel. See specifications for all testing and inspection requirements.

### SLABS ON GROUND

- Slab elevations shall match adjacent existing.
- Compact all fill under slabs on ground to 98% of optimum laboratory density in
- accordance with ASTM D698 Standard Protector Method. In granular soils (sands and gravel) the soil shall be mechanically tamped to a hard
- surface immediately prior to placing slab.
- Existing foundations shown on drawings are approximate. Exact conditions must be verified at time of construction.
- Locate existing underground utilities in areas of construction. Coordinate with utility companies for any shut-off requirements of still active lines, Call the Ohio Utilities Protection Service at 1-800-362-2764. When excavations approach the ground water level, the water level shall be lowered by an acceptable dewatering system so that the water level is maintained continuously a minimum of 2'-0" below the excavation.

# CONCRETE CONSTRUCTION

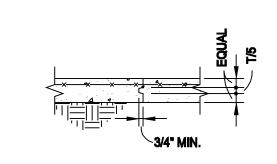
- All concrete construction shall be in accordance with the latest Building Code Requirements for Structural Concrete ACI 318 and ACI Detailing Manual, except that construction and removal of forms and reshoring shall be inspected by the Contractor's
- Reinforcing steel shall have these minima permit wherever possible, unless noted otherwise: A: Concrete poured against earth: 3"
- B: Formed concrete in contact with earth: 2"
- C: Slabs:  $\frac{3}{4}$ "
- Welded wire reinforcement for slabs on ground shall have a minimum top coverage of 1" and a maximum top coverage of  $1\frac{1}{2}$ ", unless otherwise noted. Reinforcement shall be positively supported and maintained in this position during placement of concrete.
- Furnish bar supports where necessary during construction.
- Provide pipe sleeves and inserts in concrete work where required. See architectural and mechanical drawings.
- Bend all thickened slab bars 1'-0" around corners or provide corner bars with 2'-0" lap. Key and dowel all areaways and other projecting elements to supporting walls with #4@12" on center extending 1'0" into supporting wall unless otherwise noted.
- Drawings show typical reinforcing conditions. Contractor shall prepare detailed placement drawings of all conditions showing quantity, spacing, sizes, clearances, laps, intersections, and coverage required by the structural details, applicable code, and trade standards.
- Bar bends shall be made cold. Bars shall not be bent after any portion of the bar is
- encased in concrete. Splices (grade 60 deformed bars):
- A.Lap all splices in accordance with the following tables. Provide Class B Tension Lab Splices unless otherwise noted.



Bar		Cla	ss A Develo	pment Length	, Id	
	fc = 3	000 psi	fc = 4000 psi		fc = 5000 psi	
Size	Тор	Other	Тор	Other	Тор	Othe
#3	22°	17"	19"	15"	17"	13"
#4	29"	22"	25"	19"	23"	17"
#5	36°	28"	31"	24"	28"	22"
#6	43"	33"	<b>37"</b>	29"	34"	26"
<b>#7</b>	63"	48"	54"	42"	49"	38"
#8	<b>72</b> °	55"	<b>62"</b>	48"	<b>56"</b>	43"

# CONSTRUCTION

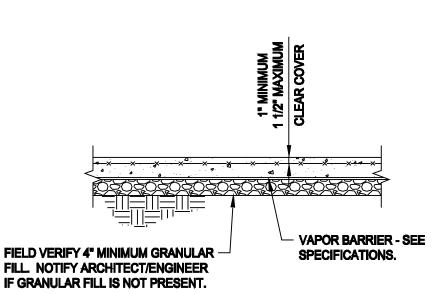
1. CONTRACTION JOINTS SHALL BE **INSTALLED IN SLABS ON GROUND AT** A MAXIMUM SPACING IN FEET OF 3 TIMES THE SLAB THICKNESS IN INCHES IN EACH DIRECTION (15'-0" MAXIMUM) BY EITHER OF THE METHODS SHOWN. MAXIMUM LENGTH OF ANY SLAB ON GROUND POUR TO BE 50'-0" BETWEEN CONSTRUCTION JOINTS. THIS SPACING OF JOINTS SHALL APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE ON DRAWINGS. 2. REINFORCING TO BE CONTINUOUS



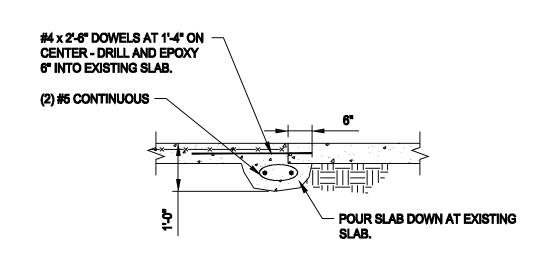
THROUGH CONSTRUCTION JOINTS.

**CONSTRUCTION JOINT** SAWED CONTRACTION JOINT

**SLAB ON GROUND JOINTS** 



SLAB ON GROUND CONSTRUCTION



AT EXISTING SLAB ON GROUND TO REMAIN

**CONSULTANTS:** 

FREDRICK, FREDRICK & HELLER ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL. (440) 546-9696 FAX: (440) 546-9699 07/01/2016

Date

Bid Issue

Revisions:

VA FORM 08-6231, OCT 1978

WILLIAM 7259

**ARCHITECT:** 

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DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN ONFIDENCE AND REMAIN THE PROPERTY OF PERSPECTUS ARCHITECTURE. THE USE OF THIS ESIGN AND THESE CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITE WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

**GENERAL PROJECT NOTES & DETAILS** 

Drawing Title

Approved: Project Director

**EMERGENCY SEWER REPAIR K-WING** 

07-01-2016

**VAMC - WADE PARK** 

Building Number Drawing Number

Office of **Facilities** Management

Department of Veterans Affairs

Checked MH

1-A1.2 Dwg.

Project Number

541-16-522

FULLY SPRINKLERED

